

REMARKS

Applicant has amended independent Claims 2, 5, and 8, while Claim 1 was previously cancelled. No new matter is introduced by these modifications. Therefore, upon entry of this amendment, Claims 2-16 remain pending in this application. Reconsideration of the pending claims is respectfully requested.

Claims 2, 4, 5, 6, 8, 9, and 12-15 were provisionally rejected under obviousness type double patenting with respect to claims 1-5 of co-pending Application No. 10/469,197 in view of U.S. Patent No. 6,504,581 to *Hirosue et al* (hereinafter *Hirosue*). A Terminal Disclaimer is included herewith disclaiming the terminal part of the statutory term of a patent granted based on the present application that may extend beyond the expiration date of any patent granted on a pending reference application number 10/469,197. Since the base reference is overcome through the supplied terminal disclaimer, Applicants respectfully request the provisional rejection of Claims 2, 4, 5, 6, 8, 9, and 12-15 be withdrawn.

Claims 3, 11, and 12 were provisionally rejected under obviousness type double patenting with respect to claims 1-5 of co-pending Application No. 10/469,197 in view of *Hirosue* and further in view of U.S. Patent No. 6,606,141 to *Takasugi et al* (hereinafter *Takasugi*). A Terminal Disclaimer is included herewith disclaiming the terminal part of the statutory term of a patent granted based on the present application that may extend beyond the expiration date of any patent granted on a pending reference application number 10/469,197. Since the base reference is overcome through the supplied terminal disclaimer, Applicants respectfully request the provisional double patenting rejection of Claims 3, 11, and 12 be withdrawn.

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Claims 5, 6, 8, 14, and 15 were provisionally rejected under obviousness type double patenting with respect to claims 1-5 of co-pending Application No. 10/469,197 in view of U.S. Patent No. 6,853,854 to *Hazama et al* (hereinafter *Hazama*). A Terminal Disclaimer is included herewith disclaiming the terminal part of the statutory term of a patent granted based on the present application that may extend beyond the expiration date of any patent granted on a pending reference application number 10/469,197. Since the base reference is overcome through the supplied terminal disclaimer, Applicants respectfully request the provisional double patenting rejection of Claims 5, 6, 8, 14, and 15 be withdrawn.

Claim 10 was provisionally rejected under obviousness type double patenting with respect to claims 1-5 of co-pending Application No. 10/469,197 in view of Hirose and in further view of U.S. Patent No. 5,987,483 to *Edelkind et al* (hereinafter *Edelkind*). A Terminal Disclaimer is included herewith disclaiming the terminal part of the statutory term of a patent granted based on the present application that may extend beyond the expiration date of any patent granted on a pending reference application number 10/469,197. Since the base reference is overcome through the supplied terminal disclaimer, Applicants respectfully request the provisional double patenting rejection of Claim 10 be withdrawn.

Claims 2, 4, 8, 9, and 13 were rejected under 35 U.S.C. 103(a) as being obvious over U.S. Patent No. 5,945,256 to *Kim et al.* (hereinafter *Kim-I*) in view of *Hirose*.

Applicants have amended independent Claim 2 to recite "the positions of the number of the light-blocked areas or the light-exposed areas in the second shot being opposite to those in the first shot, the light-blocked areas and the light-exposed areas

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having a distribution that is uniform" which is supported by the application as filed and is neither taught nor fairly suggested by the cited references in any combination (Specification page 4 lines 6-9, page 6 lines 7-13, 20-26, and 29-33, corresponding to paragraphs [0026], [0041], [0043], and [0045], and FIGS. 3A-3B). Similarly, Applicants have amended independent Claim 8 to improve readability and to recite "wherein positions of the number of the light-exposed areas in the second shot are opposite to those in the first shot, the light-blocked areas and the light-exposed areas having a distribution that is uniform" which is supported by the application as filed and is neither taught nor fairly suggested by the cited references in any combination (Specification page 4 lines 6-9, page 6 lines 7-13, 20-26, and 29-33, corresponding to paragraphs [0026], [0041], [0043], and [0045], and FIGS. 3A-3B). Since the differences between the structure of the presently claimed invention and the teachings of the cited references are sufficient to demonstrate that not all elements of the claimed invention are taught or fairly suggested by the cited references, Applicants respectfully submit that Claims 2 and 8 patentably distinguish over *Kim-1* in view of *Hirosue*, and that corresponding dependent Claims 4, 9, and 13 are also distinguishable for at least the same reasons. Therefore, Applicants respectfully request that the rejection under 35 U.S.C. § 103(a) of Claims 2, 4, 8, 9, and 13 be withdrawn.

Claims 3, 11, and 12 were rejected under 35 U.S.C. 103(a) as being obvious over *Kim-1* in view of *Hirosue* and in further view of *Takasugi*.

As discussed above in reference to independent Claim 2, *Kim-1* and *Hirosue* fail to teach "the positions of the number of the light-blocked areas or the light-exposed areas in the second shot being opposite to those in the first shot, the light-blocked areas and the

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light-exposed areas having a distribution that is uniform" and *Takasugi* does not remedy this deficiency. Claim 3 depends from Claim 2, and Applicants respectfully submit that Claim 3 is patentably distinguished over *Kim-1* in view of *Hirosue* and in further view of *Takasugi* at least based upon the allowability of independent Claim 2. Further, as discussed above in reference to independent Claim 8, *Kim-1* and *Hirosue* fail to teach "wherein positions of the number of the light-exposed areas in the second shot are opposite to those in the first shot, the light-blocked areas and the light-exposed areas having a distribution that is uniform" and *Takasugi* also does not remedy this deficiency. Claims 11 and 12 depend from Claim 8, and Applicants respectfully submit that Claims 11 and 12 are patentably distinguished over *Kim-1* in view of *Hirosue* and in further view of *Takasugi* at least based upon the allowability of independent Claim 8.

Takasugi shows an exposed/unexposed pattern (Figs. 5A-5B), however *Takasugi* nowhere describes "determining the positions or the sizes of the light-exposed unit areas or the light-blocked unit areas by a random number generator, the number of the light-exposed unit areas or the light-blocked unit areas gradually decreasing or increasing along a direction from the first shot to the second shot, the positions of the number of the light-blocked areas or the light-exposed areas in the second shot being opposite to those in the first shot, the light-blocked areas and the light-exposed areas having a distribution that is uniform". Instead, *Takasugi* teaches the pattern (5A-5B) is generated using only one shot, while the presently claimed invention teaches "the positions of the number of the light-blocked areas or the light-exposed areas in the second shot being opposite to those in the first shot", clearly identifying two different shots. The phrase "arranged alternately in check fashion so as to form a checkered pattern" in (*Takasugi* col. 8 lines

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17-19) refers to the exposed/unexposed pattern itself, and not "the light-blocked areas or the light-exposed areas in the second shot being opposite to those in the first shot" as presently claimed. Finally, *Takasugi* teaches "the exposed portions in FIGS. 5A and 5B are formed to be engaged with each other, and that the full surface of the substrate is exposed when such engagement is completed" (*Takasugi* col. 8 lines 21-24) which does not teach the "positions of the number of the light-exposed areas in the second shot are opposite to those in the first shot, the light-blocked areas and the light-exposed areas having a distribution that is uniform" nor does *Takasugi* teach the use of a random number generator or any claimed benefit of selecting the position of an exposed/unexposed region on a randomly generated number, such as reducing stitch errors or making the brightness in the stitch area continuously change (Specification page 5 lines 6-17, corresponding to paragraphs [0032]-[0034]). Therefore, Applicants respectfully request that the rejection under 35 U.S.C. § 103(a) of Claims 3, 11, and 12 be withdrawn.

Claims 5, 6, 8, 14, and 15 were rejected under 35 U.S.C. 103(a) as being obvious over *Kim-1* in view of *Hazama*.

Applicants have amended independent Claim 5 to recite "the positions of the number of the light-blocked areas or the light-exposed areas in the second shot being opposite to those in the first shot, the light-blocked areas and the light-exposed areas having a distribution that is uniform" which is supported by the application as filed and is neither taught nor fairly suggested by *Kim-1* and *Hazama* in any combination (Specification page 4 lines 6-9, page 6 lines 7-13, 20-26, and 29-33, corresponding to paragraphs [0026], [0041], [0043], and [0045], and FIGS. 3A-3B). Claim 6 depends

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from Claim 5, and Applicants respectfully submit that Claim 6 is patentably distinguished over *Kim-1* in view of *Hazama* at least based upon the allowability of independent Claim 5. Further, in reference to independent Claim 8, *Kim-1* and *Hamaza* fail to teach "wherein positions of the number of the light-exposed areas in the second shot are opposite to those in the first shot, the light-blocked areas and the light-exposed areas having a distribution that is uniform". Claims 14 and 15 depend from Claim 8, and Applicants respectfully submit that Claims 14 and 15 are patentably distinguished over *Kim-1* in view of *Hazama* at least based upon the allowability of independent Claim 8. Therefore, Applicants respectfully request that the rejection under 35 U.S.C. § 103(a) of Claims 5, 6, 8, 14, and 15 be withdrawn.

Claims 7 and 16 were rejected under 35 U.S.C. 103(a) as being obvious over *Kim-1* in view of *Hazama* and further in view of U.S. Patent No. 6,100,953 to *Kim et al.* (hereinafter *Kim-2*).

In reference to independent Claim 5, Applicants have amended independent Claim 5 to recite "the positions of the number of the light-blocked areas or the light-exposed areas in the second shot being opposite to those in the first shot, the light-blocked areas and the light-exposed areas having a distribution that is uniform" which is supported by the application as filed and is neither taught nor fairly suggested by *Kim-1* and *Hazama* and *Kim-2* in any combination (Specification page 4 lines 6-9, page 6 lines 7-13, 20-26, and 29-33, corresponding to paragraphs [0026], [0041], [0043], and [0045], and FIGS. 3A-3B). Claim 7 depends from Claim 5, and Applicants respectfully submit that Claim 7 is patentably distinguished over *Kim-1* in view of *Hazama* and further in view of *Kim-2* at least based upon the allowability of independent Claim 5. Further, in

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reference to independent Claim 8, *Kim-1* and *Hazama* and *Kim-2* in any combination fail to teach "wherein positions of the number of the light-exposed areas in the second shot are opposite to those in the first shot, the light-blocked areas and the light-exposed areas having a distribution that is uniform". Claim 16 depends from Claim 8, and Applicants respectfully submit that Claim 16 is patentably distinguished over *Kim-1* in view of *Hazama* and further in view of *Kim-2* at least based upon the allowability of independent Claim 8. Therefore, Applicants respectfully request that the rejection under 35 U.S.C. § 103(a) of Claims 7 and 16 be withdrawn.

Claim 10 was rejected under 35 U.S.C. 103(a) as being obvious over *Kim-1* in view of *Hazama* and further in view of *Edelkind*.

In reference to independent Claim 8, *Kim-1* and *Hazama* and *Edelkind* in any combination fail to teach "wherein positions of the number of the light-exposed areas in the second shot are opposite to those in the first shot, the light-blocked areas and the light-exposed areas having a distribution that is uniform". Claim 10 depends from Claim 8, and Applicants respectfully submit that Claim 10 is patentably distinguished over *Kim-1* in view of *Hazama* and further in view of *Edelkind* at least based upon the allowability of independent Claim 8. Therefore, Applicants respectfully request that the rejection under 35 U.S.C. § 103(a) of Claim 10 be withdrawn.


Accordingly, Applicant respectfully submits that Claims 2-16 are in proper form for allowance. Reconsideration and withdrawal of all rejections are respectfully requested and a timely Notice of Allowance is solicited.

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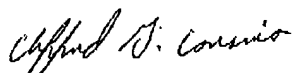
If the Examiner has any questions or concerns, a telephone call to the undersigned at (949) 752-7040 is welcomed and encouraged.

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August 2, 2006
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Respectfully submitted,


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